

Preliminary Amendment

Applicant: Allen C. Norskog et al.

Filed: Herewith

Docket No.: 10010265-2

Title: SYSTEM AND METHOD FOR REDUCING POWER CONSUMPTION IN AN OPTICAL SCREEN POINTING DEVICE

IN THE CLAIMS

Please cancel claims 1-12 as follows:

1.(Cancelled)

2.(Cancelled)

3.(Cancelled)

4.(Cancelled)

5.(Cancelled)

6.(Cancelled)

7.(Cancelled)

8.(Cancelled)

9.(Cancelled)

10.(Cancelled)

11.(Cancelled)

12.(Cancelled)

13.(Original) A method of switching an optical screen pointing device from a low power mode to a full power mode, the method comprising:

detecting a first movement with the optical screen pointing device;

calculating a first value representing an amount of the first movement;

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storing an accumulated movement value representing an accumulation of previously detected movements;

updating the accumulated movement value by adding the first value;

comparing the updated accumulated movement value to a threshold value;

determining whether to switch to the full power mode based on the comparison of the updated accumulated movement value and the threshold value.

14.(Original) The method of claim 13, and further comprising:

reducing the updated accumulated movement value by a decay factor.

15.(Original) The method of claim 13, and further comprising:

switching to the full power mode if the updated accumulated movement value is greater than the threshold value.

16.(Original) The method of claim 13, wherein the threshold value is one pixel per frame.

17.(Original) The method of claim 14, wherein the decay factor is 0.5.

18.(Original) The method of claim 13, wherein the optical screen pointing device is configured to collect and process image data in each of a plurality of frame periods, each frame period including an integration phase during which light is collected, an analog to digital conversion phase during which collected light is converted into digital values, and an image processing phase during which image data is correlated with previous image data to determine movement information.

19.(Original) The method of claim 18, wherein the optical screen pointing device includes a light source, the method further comprising:

turning the light source on only during the integration phase of frame periods.